

REACT

CONTEXT API

AS YOUR NEXT

STATE ENGINE

How to replace Redux/Mobx with context and hooks?

~~How to replace Redux/Mobx with context and hooks~~

How to manage data in app easily and without pain

THIS IS COMPONENT

Problem 1

</> I have a value and callback to change value!

</> I don't care about that value

</> Neither do I

</> Don't care

</> DAMMIT, WHERE
IS THE VALUE?!

I WANNA CHANGE IT!

Problem 2

`</>` I have an array and callback to change value!

`<{...props}/>` Meh, ok

`<{...props}/> :(`

`< {...props}/> :(`

`</>`

`props.array.push('ha!')`

Problem 3

WOW, I got 200 properties, have you seen that?

Context

- Formik
- Redux Table

Go Brownfield

`<ContextProvider />`

`<SomeComponent />`

`<ContextConsumer />`

`<Component>` which has access to Context

`<SomeAnotherComponent />`

`<ContextConsumer />`

`<Component>` which has access to
Context

Context

`<ContextProvider />`

`<SomeComponent />`

`<ContextConsumer />`

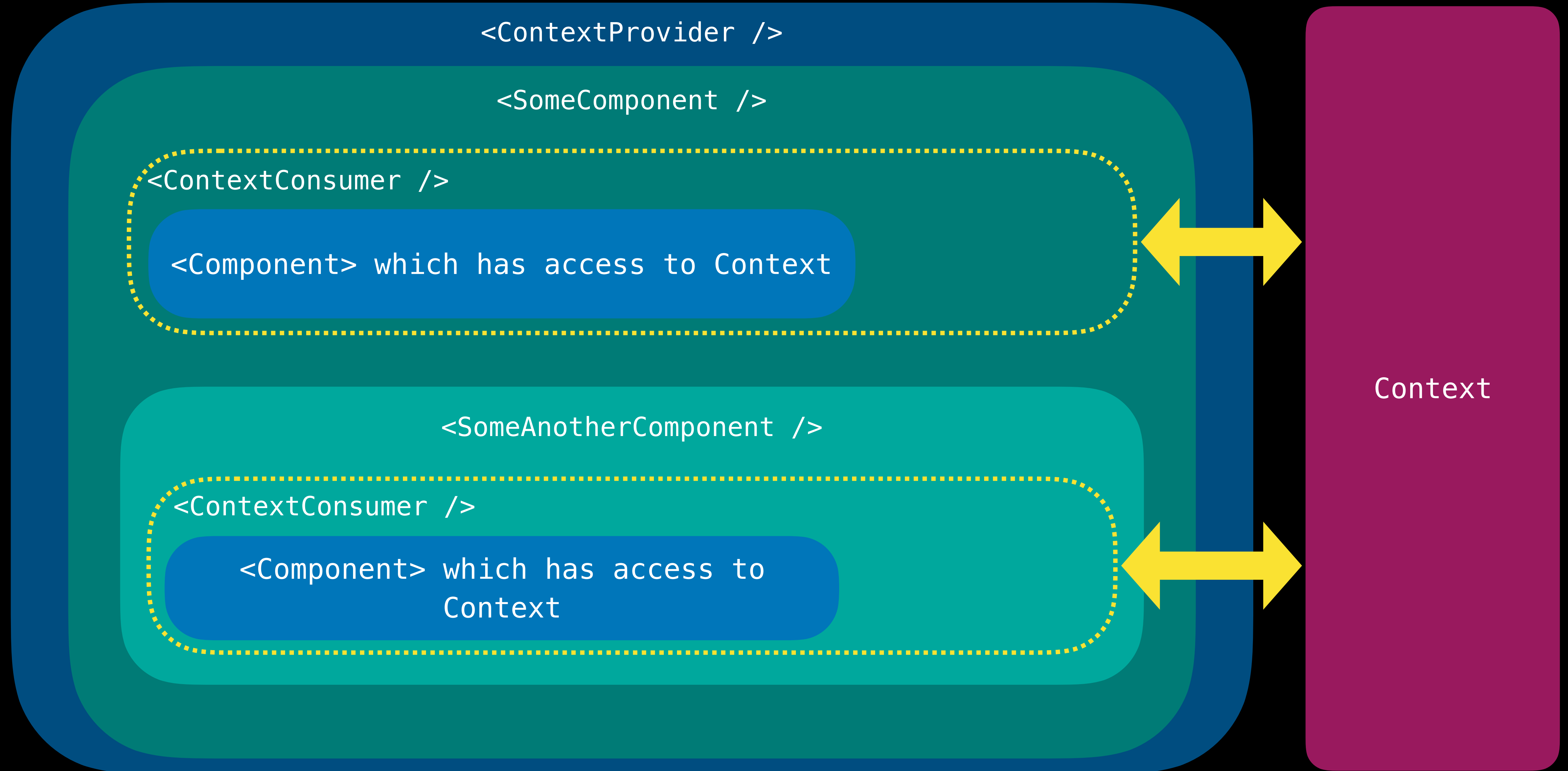
`<Component>` which has access to Context

`<SomeAnotherComponent />`

`<ContextConsumer />`

`<Component>` which has access to
Context

Context





Context nesting

Trees Provider

Berries Provider

Trees Consumer

Berries Consumer

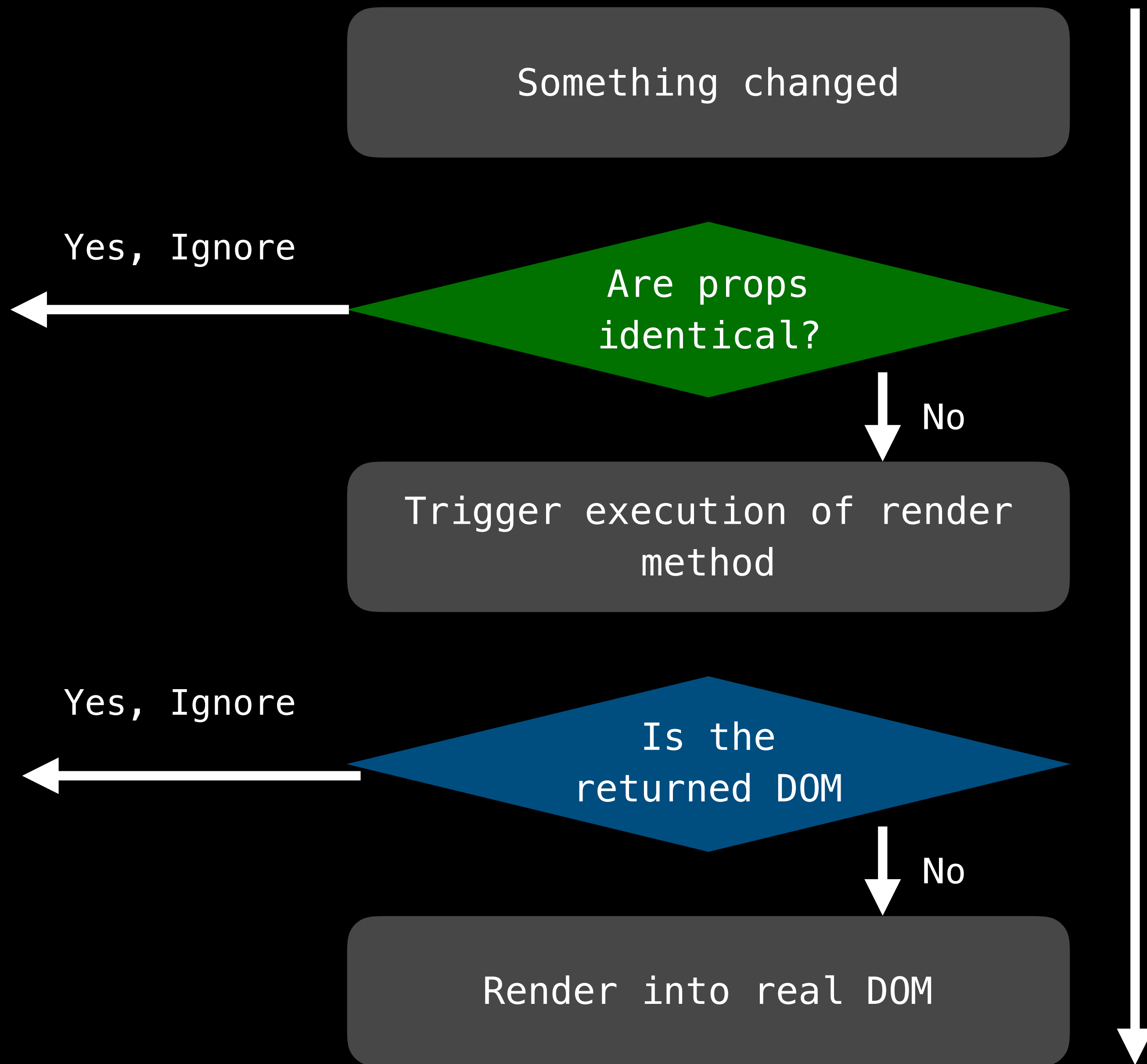
Components which needs access to
Trees and Berries



That typical
problem



Chad Bagwell
youtu.be/fEXBKta0SkA
[/u/a1oo0loofah](#)



Rendering flow

Performance degradation

HOC subscribed to context
properties

Memoization of received parameters

Your component with heavy rendering
calculations

HOC subscribed to context
properties

```
prevProps === nextProps
```

Peace. Nothing happens here.



How I can write tests for it?

- `react-testing-library`
- encapsulate validations into separate function helpers and test them as pure functions

- Redux is ok
- Context without hooks is ok
- Hooks without context is ok
- Redux with hooks and context is also ok
- Hooks with context are ok
- etc.

Questions?

Oleksandr Tryshchenko @ Relay42
tryshchenko.com
@tryshchenko

Feel free to reach me
EN/UA/PL/RU

